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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,018	07/14/2003	Satoshi Fujimine	240084US0	4020
22850	7590 10/18/2004		EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ZIMMERMA	AN, GLENN
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•		2879	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/618,018	FUJIMINE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Glenn Zimmerman	2879				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a now within the statutory minimum of thirt will apply and will expire SIX (6) MON to cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on Augu	ıst 25, 2004					
	is action is non-final.					
· <u> </u>	· · ·					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to t	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Aprity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/14/03.)/Mail Date formal Patent Application (PTO-152) 				
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Art Unit: 2879

DETAILED ACTION

Election/Restrictions

The examiner acknowledges the response to the restriction requirement of 8/16/2004; however, the examiner has withdrawn the restriction requirement of August 16, 2004, and will examine claims 1-8.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Axtell, III et al. U.S. Patent 6,238,847.

Regarding claim 1, Axtell, III et al. discloses a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B₂O₃, from 4 to 15% of SiO₂, from 20 to 44% of B₂O₃+ SiO₂, from 0.5 to 10% of TiO₂+ZrO₂+La₂O₃+Ta₂O₅, from 0 to 15% of Al₂O₃, from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of

Art Unit: 2879

CeO2. (col. 3 lines 63-67 and col. 4 lines 1-2; one must choose the correct percentages)

Regarding claim 3, Axtell, III et al. discloses the glass for covering electrodes according to claim 1, wherein CuO is contained, and the content of TiO₂ is from 0 to 4.5%. (col. 3 lines 63-67 and col. 4 lines 1-2; one must choose the correct percentages).

Regarding claim 5, Axtell, III et al. discloses a colored powder for covering electrodes, which comprises a powder of the glass for covering electrodes as defined in claim 1 and a pigment (col. 4 lines 25-30).

Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Hwang U.S. Patent Application publication 2001/0024582.

Regarding claim 1, Hwang discloses a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B_2O_3 , from 4 to 15% of SiO_2 , from 20 to 44% of B_2O_3 + SiO_2 , from 0.5 to 10% of TiO_2 + ZrO_2 + La_2O_3 + Ta_2O_5 , from 0 to 15% of Al_2O_3 , from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO2. (see Table 4).

Regarding claim 2, Hwang discloses the glass for covering electrodes according to claim 1, wherein the content of Al_2O_3 is from 1 to 10%, and the content of BaO is from 12 to 20%. (Table 5)

Art Unit: 2879

Regarding claim 4, Hwang discloses the glass for covering electrodes according to claim 1, which has a softening point of from 520 to 650°C (paragraph 77; claim 30 or 50).

Claims 1 and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka et al. U.S. Patent 6,160,345.

Regarding claim 1, Tanaka et al. disclose a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B₂O₃, from 4 to 15% of SiO₂, from 20 to 44% of B₂O₃+ SiO₂, from 0.5 to 10% of TiO₂+ZrO₂+La₂O₃+Ta₂O₅, from 0 to 15% of Al₂O₃, from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO₂. (see Table 1b row example number 15).

Regarding claim 5, Tanaka et al. disclose a colored powder for covering electrodes, which comprises a powder of the galss for covering electrodes as defined in claim 1 and a pigment (Calcium oxide; col. 6 line 65).

Regarding claim 6, Tanaka et al. disclose a process for producing a plasma display device wherein covering of transparent electrodes formed on a glass substrate constituting a front substrate, is carried out by coating and firing a powder of the glass for covering electrodes as defined in claim 1, to cover the electrodes (col. 7 lines 8-12).

Regarding claim 7, Tanaka et al. disclose a process for producing a plasma display device, wherein covering of transparent electrodes formed on a glass substrate constituting a front substrate, is carried out by coating and firing the colored powder for covering electrodes as defined in claim 5, to cover the electrodes (col. 7 lines 8-12).

Regarding claim 8, Tanaka et al. discloses a plasma display device (Fig. 1, 3) comprising a glass substrate constituting a front substrate and transparent electrodes formed on the glass substrate, wherein the transparent electrodes are covered by the glass for covering electrodes as define in claim 1. (example 15 Table 1.b)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ichakawa et al. U.S. Patent Application Publication 2002/0096666 A1 discloses Alkali Development Type Photocurable Composition and Calcined Pattern Obtained by Use of the Same (claim 4). Fukushima et al. U.S. Patent 6,555,594 B1 discloses a Photo-Curable Electrically Conductive Composition and Plasma Display Panel Having Electrodes Formed by Use of the Same (col. 14 lines 34-40).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-W 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh D Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2879

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Glenn Zimmerman

Vip Patel Primary Examiner

Page 6

AU 2879